

Multi-port Diaphragm Valve

Forged stainless steel body

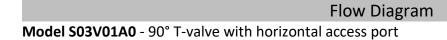


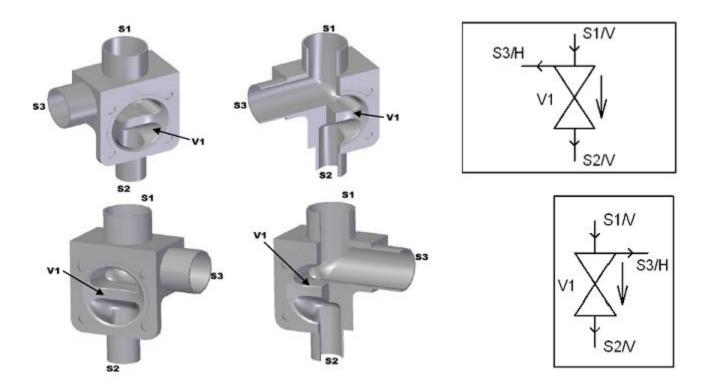
Description

Multi-port valve can combine many different functions in the smallest of spaces due to their design such as mixing, dividing, sampling, diverting, discharging, automatic switching etc. During these different functions, various important tasks are assigned to multi-port valve such as sampling, clean steam access (SIP), cleaning solution access (CIP), flow control, product transfer and other critical functions within the scope of automation. All these functions can be handled repeatedly and reliably by Multi-port valve to provide process security. The multiport valve, controlled by a PLC or other control device, can feed different pipelines.

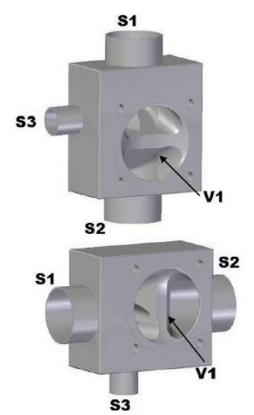
Main Features

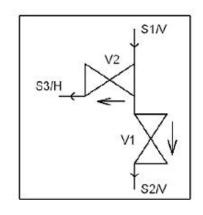
- Fully machined from SS 316L bar-stock- no welded components
- Increased security no internal fabrication welds
- Reduced dead leg based on orientation
- Greater structural integrity
- Fewer fittings, welds and radiographic inspections
- Ease of installation along with lesser space requirement and reduced cost
- Improved process efficiency
- Shorter CIP cycle
- Enhanced clean ability
- Fully Autoclavable
- Various internal surface finish available each with less than 0.40 Ra

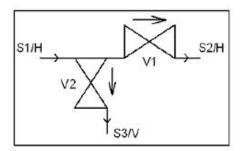


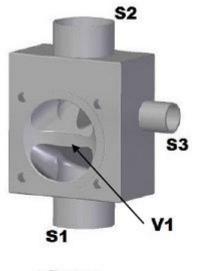


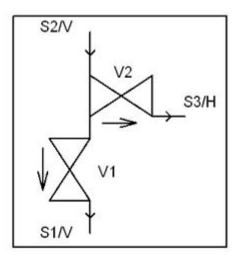
Model S03V02A0 - 2-way valve with integrated, upstream or downstream SAP/GMP valve, vertical or horizontal installation

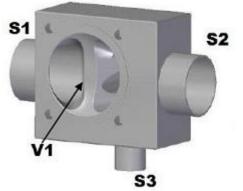


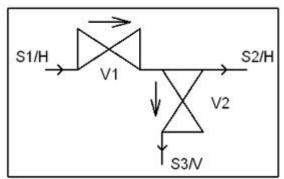




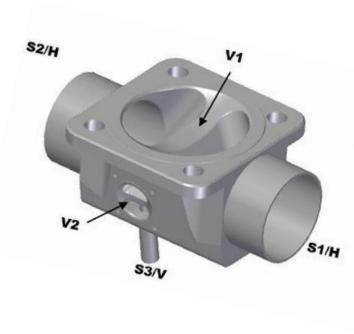


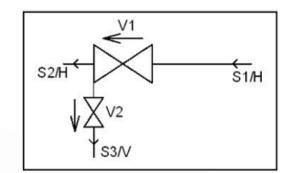


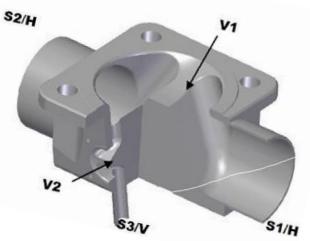




Model S03V02B0 - i-Valve with downstream sampling

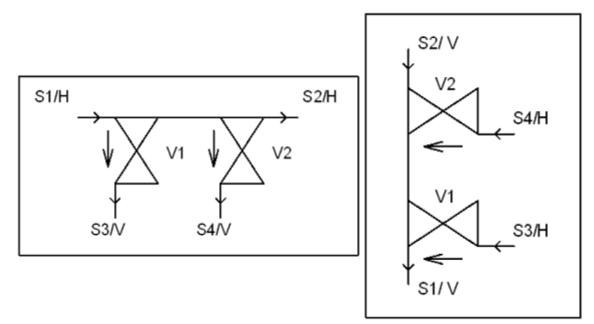




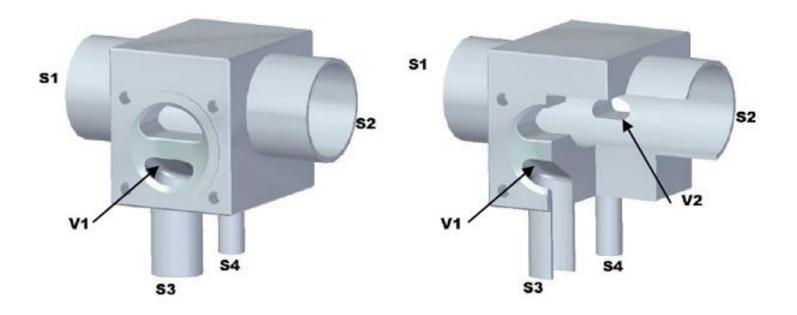


Model S04V02AL/R - Zero static back to back dual T-valve block, distribution or collection, vertical or horizontal installation

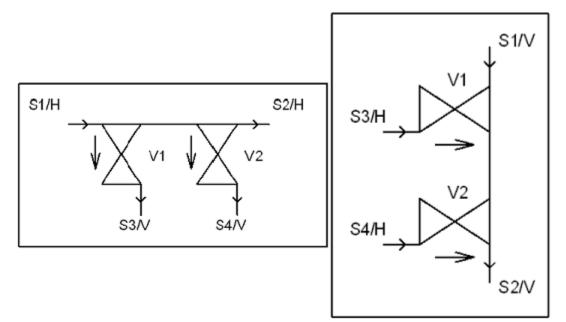
Model S04V02AL



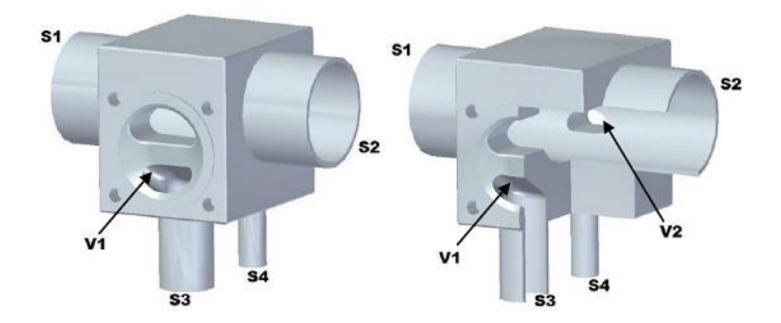
Horizontal seat: S3/S4 positioned at the left side of the cavity Vertical seat: S3/S4 positioned to the left of the seat

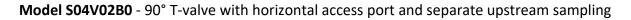


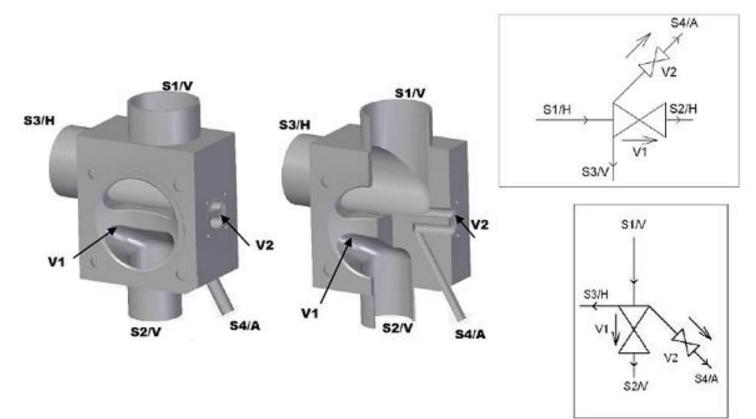
Model S04V02AR



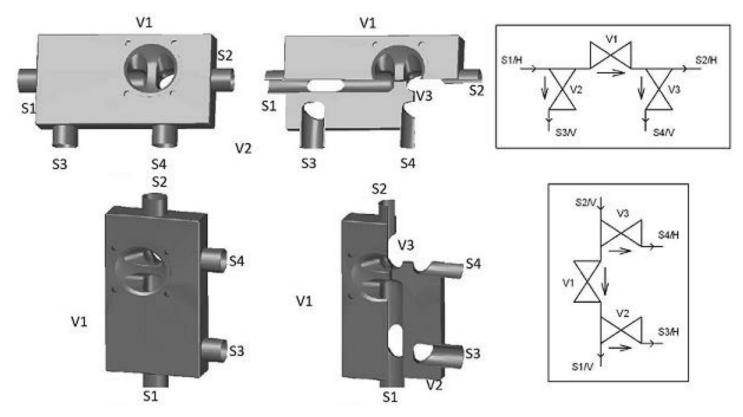
Horizontal seat: S3/S4 positioned at the right side of the cavity Vertical seat: S3/S4 positioned to the right of the seat



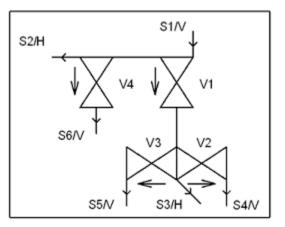


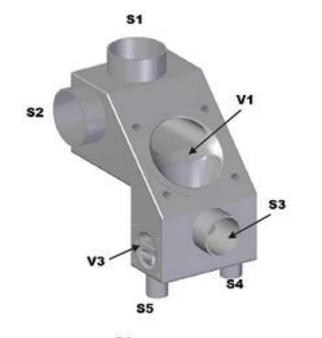


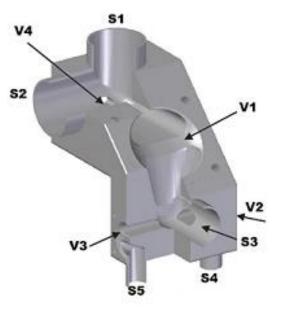
Model S04V03A0 - Isolation valve block with upstream and downstream access valves

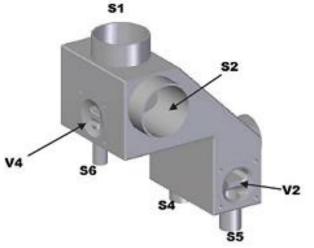


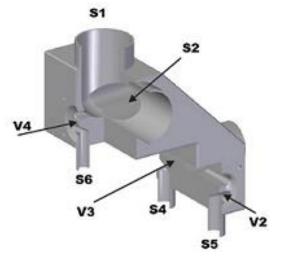
Model S06V04A0 - 4 seat point of use valve block with horizontal outlet, separate upstream sampling, downstream CIP and SIP access valves, option of actuators available on front and sides.









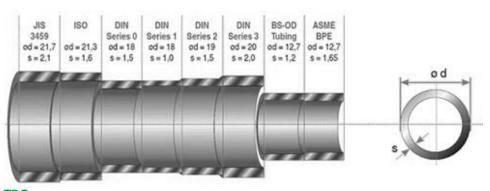


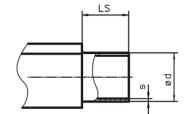
Butt Weld Connection

				ASME BPE	BS O.D. 4825	EN ISO 1127	DIN	Din 11850			DIN 11866
Dimensions in inch/mm				Code 59	Code 55	Code 60	Code 0	Series 1 Code 16	Series 2 Code 17	Series 3 Code 18	Code 1A
DN	Size	MG	LS (min)	Ød × s	Ød × s	Ød × s	Ød × s	Ød × s	Ød × s	Ød × s	Ød × s
4	-		0.787 20	-	-	-	0.236 × 0.039 6 × 1.00	-	-	-	-
6	-		0.787 20	-	-	-	0.236 × 0.039 6 × 1.00	-	-	-	-
8	1/4"	8	0.787 20	0.250 × 0.035 6.35 × 0.089	0.250 × 0.047 6.35 × 1.20	0.531 × 0.063 13.5 × 1.6	0.394 × 0.039 10 × 1.00	-	-	-	-
10	3/8"		0.787 20	0.375 × 0.035 9.53 × 0.89	0.375 × 0.047 9.53 × 1.20	-	-	0.472 × 0.039 12× 1.00	0.512 × 0.059 13 × 1.50	0.551 × 0.079 14× 2.00	0.512 × 0.059 13 × 1.50
15	1/2"		0.787 20	0.500 × 0.065 12.7 × 1.65	0.500 × 0.047 12.7 × 1.20	-	-	-	-	-	-
10	3/8"		0.984 25	0.375 × 0.035 9.53 × 0.89	0.375 × 0.047 9.53 × 1.20	0.677 × 0.063 17.2 × 1.60	-	0.472 × 0.039 12× 1.00	0.512 × 0.059 13 × 1.50	0.551 × 0.079 14 × 2.00	0.512 × 0.059 13 × 1.50
15	1/2"	10	0.984 25	0.500 × 0.065 12.7 × 1.65	0.500 × 0.047 12.7 × 1.20	0.839 × 0.063 21.3 × 1.60	0.709 × 0.059 18 × 1.50	0.709 × 0.039 18× 1.00	0.748 × 0.059 19 × 1.50	0.787 × 0.079 20× 2.00	0.748 × 0.059 19 × 1.50
20	3/4"		0.984 25	0.750 × 0.065 19.05 × 1.65	0.750 × 0.047 19.05 × 1.20	-	-	-	-	-	-
15	1/2"		0.984 25	0.500 × 0.065 12.7 × 1.65	0.500 × 0.047 12.7 × 1.20	0.839 × 0.063 21.3 × 1.60	0.709 × 0.059 18 × 1.50	0.709 × 0.039 18× 1.00	0.748 × 0.059 19 × 1.50	0.787 × 0.079 20 × 2.00	0.748 × 0.059 19 × 1.50
20	3/4"	25	0.984 25	0.750 × 0.065 19.05 × 1.65	0.750 × 0.047 19.05 × 1.20	1.059 × 0.063 26.9 × 1.60	0.786 × 0.059 22 × 1.50	0.866 × 0.039 22× 1.00	0.906 × 0.059 23 × 1.50	0.945 × 0.079 24 × 2.00	0.906 × 0.059 23 × 1.50
25	1″		0.984 25	1.000 × 0.065 25.4 × 1.65	-	1.327 × 0.079 33.7 × 2.0	1.102 × 0.059 28 × 1.50	1.102 × 0.039 28× 1.00	1.142 × 0.059 29 × 1.50	1.181 × 0.079 30 × 2.00	1.142 × 0.059 29 × 1.50
32	1 1/4"	40	0.984 25	-	-	1.669 × 0.079 42.4 × 2.00	1.339 × 0.059 34 × 1.50	1.339 × 0.039 34× 1.00	1.378 × 0.059 35 × 1.50	1.417 × 0.079 36 × 2.00	1.378 × 0.059 35 × 1.50
40	1 1/2"	40	0.984 25	1.500 × 0.065 38.1 × 1.65	-	1.902 × 0.079 48.3 × 2.00	4.575 × 0.059 40 × 1.50	1.575 × 0.039 40× 1.00	1.614 × 0.059 41 × 1.50	1.654 × 0.079 42 × 2.00	1.614 × 0.059 41 × 1.50
50	2″	50	1.181 30	2.000 × 0.065 50.8 × 1.65	-	2.374 × 0.079 60.3 × 2.00	2.047 × 0.059 52 × 1.50	2.047 × 0.039 52× 1.00	2.087 × 0.059 53 × 1.50	2.126 × 0.079 54 × 2.00	2.087 × 0.047 53 × 1.20
65	1 1/2"		1.181 30	2.500 × 0.065 63.5 × 1.65	-	2.996 × 0.079 76.1 × 2.00	-	-	2.756 × 0.079 70 × 2.00	-	2.756 × 0.079 70 × 2.00
80	3″	80	1.181 30	3.000 × 0.065 76.2 × 1.65	-	3.500 × 0.091 88.9 × 2.30	-	-	3.346 × 0.059 85 × 2.00	-	3.346 × 0.059 85 × 2.00
100	4"	100	1.181 30	4.000 × 0.083 101.6 × 2.11	-	4.500 × 0.091 114.3 × 2. 30	-	-	4.096 × 0.079 104 × 2.00	-	4.096 × 0.079 104 × 2.00

*MG= Diaphragm size

The Difference between tube specification (Example DN 15)





TRG SUPPLY

Processing medium

Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids

Temperature

Media	temperature	Sterilizat	ion temperature	Ambient Temperature	
EPDM	-10°C to 75°C	EPDM	Briefly up to 130°C	Up to 90°C	
PTFE	-10°C to 90°C	PTFE	Briefly up to 150°C		

Valve body material

MOC – Wetted (Contact)	MOC – Non-wetted (Non- contact)
Stainless steel 316L	Polyamide or ASTM A351 CF8 (SS 304)

End connection

V-band (Hygienic) Clamp	ASME BPE			
Butt-Weld	(EN ISO 1127/ISO 4200 and BS 4825 are available on			
Butt-Weld	request)			

Surface Finish

Mechanical Polish Electro Polish

User Specification sheet

Please complete this form and send to TRG SUPPLY:

Working Pres	Bar(g)	Dra	aw P&ID Diagram or	sketch of process Co	omplete all		
Media tempe	°C	parts of this form					
Non-wetted F	Parts:		Exa	ample:			
Polyamide			^{\$2/∨} ↓				
Stainless Stee	l ASTM A351 CF8 (SS 30)4)					
Seal Material	:						
PTFE				S1/V			
EPDM		Model: S03V02A0,					
Surface Finish:			Connection: S1, S2,				
Mechanical Polish			Desired orientation: Horizontal/ Vertical				
Electro Polish			Flow Direction:				
Quantity:			Draining Direction: ->				
			Valve Controller: -				
	End Connection	Connection		Conti	roller		
Connection	(ASME BPE, BS 4825 etc.)	Size (DN)		Controller Type	Control Function	Comments	
S1							

Connection	(ASME BPE, BS 4825 etc.)	Size (DN)	Controller Type	Control Function	Comments			
\$1								
S2								
S3								
S4								
S5								
S6								
S7								
S8								
S9								
S10								
S11								
S12								
Your Name:								
Department:								
Company Name:								
Address:								
Phone:	Fa	x:	E-mail:					

How do I tell Leistung what kind of Series MP multi-port valves I want? Please fill following details in User Specification Sheet:

- 1. Enter the operating conditions.
- 2. Specify desired material for non-wetted parts.
- 3. Specify desired material for seal.
- 4. Specify desired surface finish requirements.
- 5. Specify what functions the multiport valve should fulfill.
- 6. Draw the P&ID diagram and/or make sketch of desired process in the specification sheet. You can also use the examples shown in this catalogue as a guide.
- 7. Label all connection / connections with S1, S2, ...
- 8. Specify size and end connection details for all connection / connections in the table.e.g. If you want a DN 40 ASME BPE
- 9. Specify desired controller (Manual / Pneumatic) and control function (NO/NC/DA) in case of pneumatic actuators for every connection.
- 10. Assign the necessary features to every connection in the table and add explanatory remarks if necessary.
- 11. If you want to add any remarks or descriptions, use an additional sheet.

Please use separate sheets for each valve.

Why Leistung needs all these details?

Series MP multi-port valves become most economic when we consider the entire cost of plant, operation, maintenance and validation. This advance concept provides functional benefits in Design, installation, validation, commissioning and operations by use of its superior design.

The design of these valves starts with understanding the process requirements and then its conceptualization. Most processes are complex in nature and there are varieties of solutions available that can satisfy its requirements. We at Leistung, wants to ensure that the valve you receive from us is the optimally best solution for your requirements. Therefore, it becomes very important for us that you provide all relevant details of the application to us at the earliest stage of the project. Our user specification sheet works as the best format through which you can specify all of your requirements.

Contact: <u>sales@titanresearch.ca</u> <u>https://www.titangroupsupply.com/</u> Tell: 1-800-820-0092 Fax: 1-416-849-0116

For further diaphragm valves, gaskets, compatible actuators & accessories and other products, please contact us for pricing.